Abstract

An embodiment is a catheter comprising a first elongate shaft having a proximal 5 end, a distal end and a first lumen therethrough, a wire having a proximal end and a distal end at least partially disposed in the first elongate shaft, the distal end extending distally from the first elongate shaft, and a motion control apparatus connected to the proximal end of the wire, further comprising a device attached to the distal end of the wire for changing the shape of an embolus, wherein the device is configured to change the shape of the embolus to unclog a distal catheter lumen.

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